

	<b>Q bio</b> m <sup>3</sup> / Tag	<b>Q min</b> l / s	<b>Q max</b> l / s
<b>Mittelwert</b>	13'251		
<b>20%-Wert</b>	9'192	68	217
<b>50%-Wert</b>	10'216	75	242
<b>80%-Wert</b>	16'500	101	455
<b>Q tw</b> 1)	9'704	72	230
<b>2 Q tw</b>			459

1) Mittel aus 20% und 50%-Wert

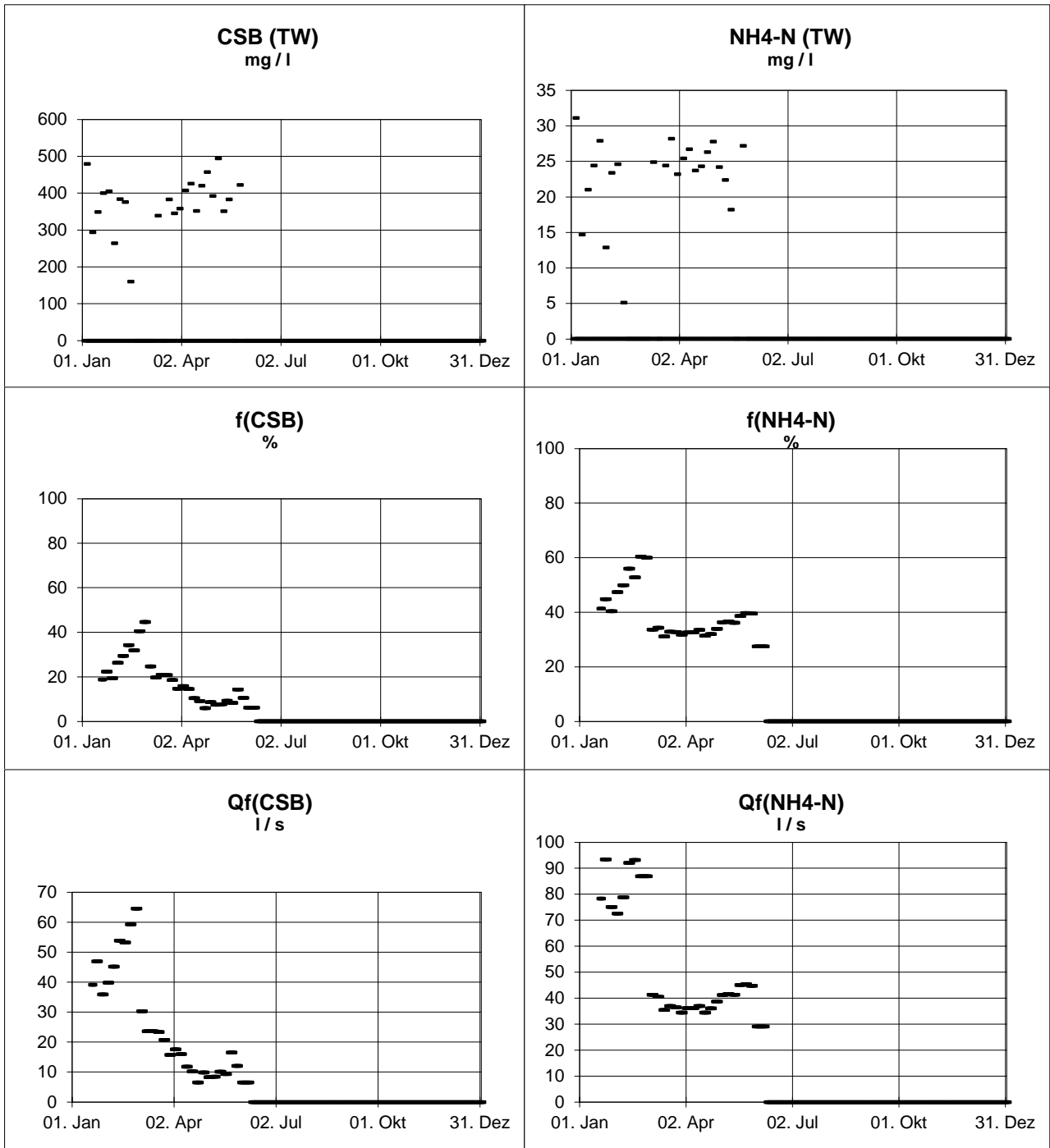
**Fremdwasseranteil 19 %**

siehe Seite 2

	<b>Tagesmittelwerte</b>	
	<b>m<sup>3</sup> / d</b>	<b>l / s</b>
<b>Q tw</b>	9'704	112
<b>Q fremd</b> <sup>2)</sup>	1'809	21
<b>Q schmutz</b> <sup>3)</sup>	7'895	91

<sup>2)</sup> = Q tw \* Fremdwasseranteil / 100

<sup>3)</sup> = Q tw - Q fremd



**Vorgaben:**

<b>Q schmutz</b>	200 l/EW*Tag
<b>CSB</b>	90 g/EW*Tag
<b>NH4-N</b>	7.5 g/EW*Tag
<b>K soll (CSB)</b>	450 mg / l
<b>K soll (NH4-N)</b>	37.5 mg / l

**K soll:** erwartete Konzentration im Zulauf, wenn nur Schmutzwasser zuläuft!

**Schätzung aus EW biochemisch**

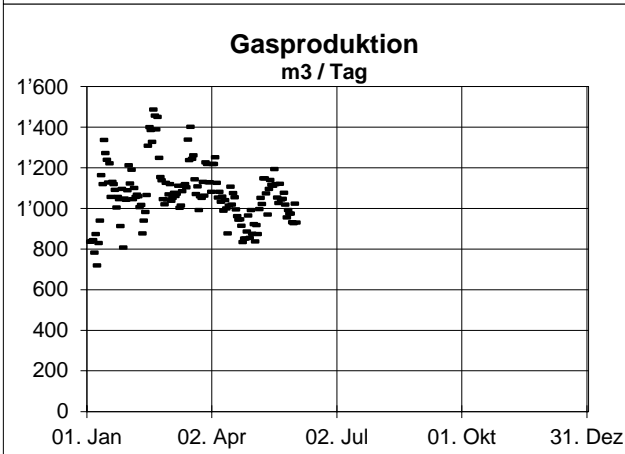
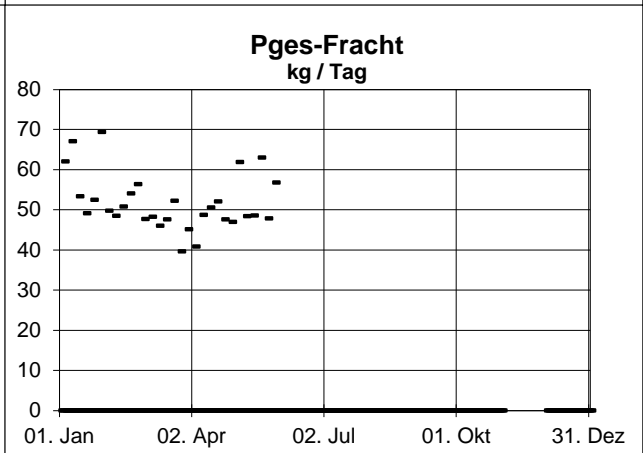
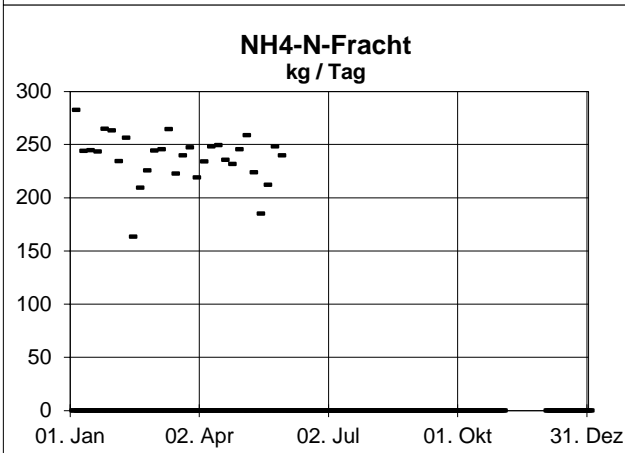
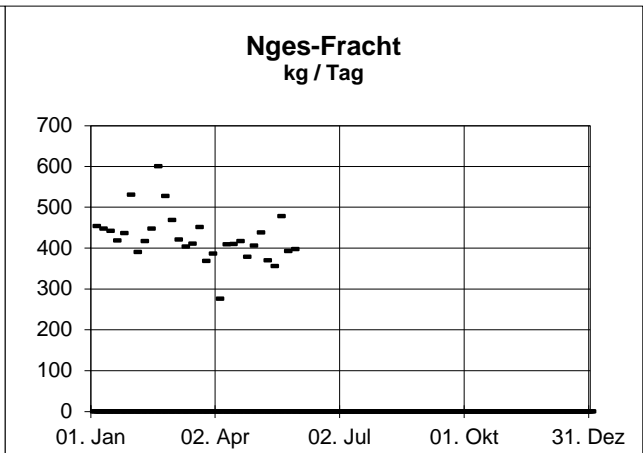
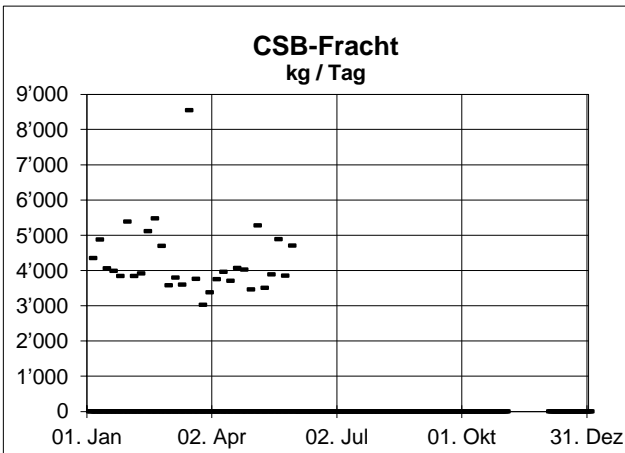
<b>Q tw</b>	9'704 m3 / Tag
<b>Q schmutz (EW) <sup>1)</sup></b>	9'600 m3 / Tag
<b>Q fremd (EW)</b>	104 m3 / Tag
<b>f (EW)</b>	1 %

<sup>1)</sup> 200 l / EW \* Tag

**Schätzung aus den Zulaufkonzentrationen:**

<b>f(CSB) Jahresmittel</b>	17 %
<b>f(NH4-N) Jahresmittel</b>	38 %

<b>f Mittelwert</b>	19 %
<b>f gewählt</b>	19 %

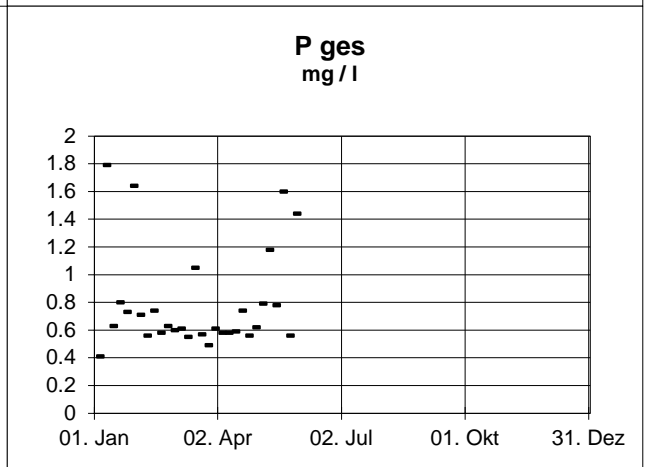
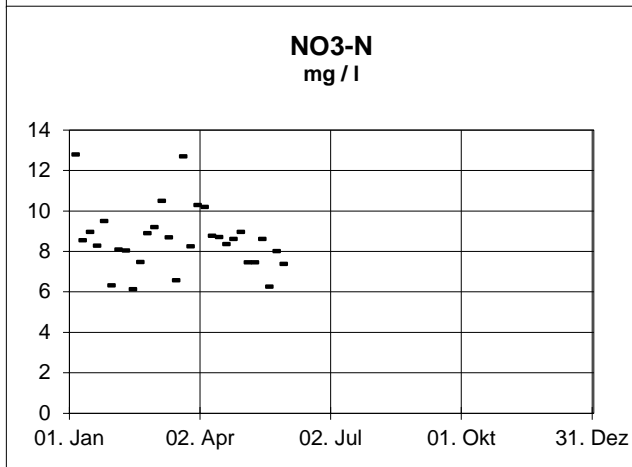
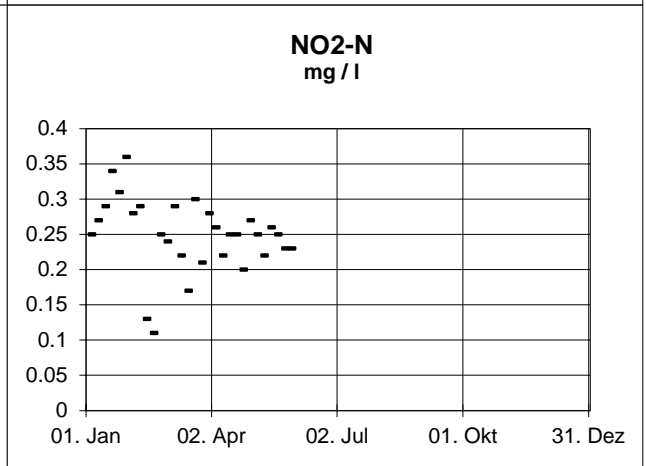
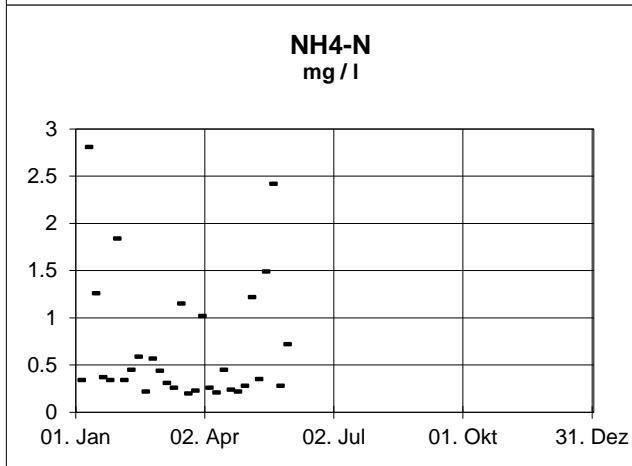
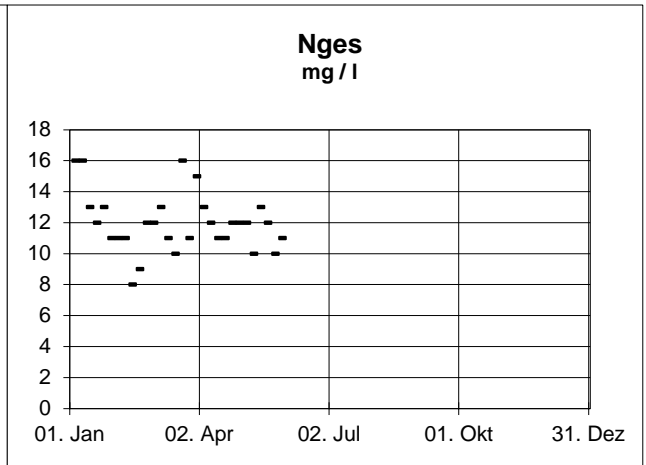
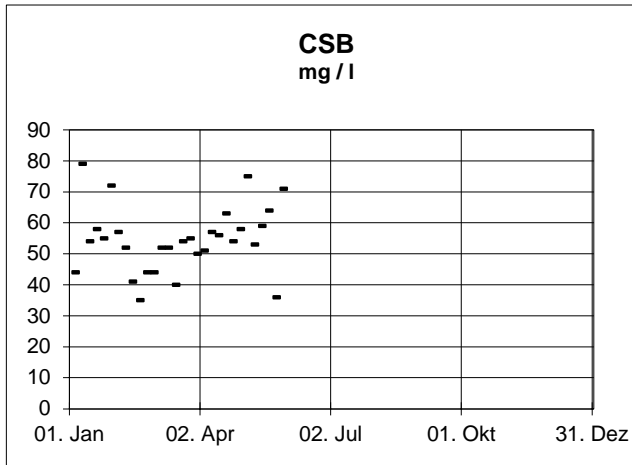


<b>EZ angeschlossen</b>	<b>22'236</b>
<b>EW biochem. gewählt</b>	<b>48'000</b>
<b>EW biochem. 80%-Wert</b>	<b>54'000</b>
<b>EW Stickstoff</b>	<b>32'000</b>
<b>EW Phosphor</b>	<b>32'000</b>

<b>Zulauffrachten</b>	<b>BSB5 kg/Tag</b>	<b>CSB kg/Tag</b>	<b>NH4-N kg/Tag</b>	<b>Pges kg/Tag</b>	<b>Gasp. m3/Tag</b>	<b>FS kg/Tag</b>
<b>Mittelwert</b>		4'280	238	52	1'067	2'912
<b>50%-Wert</b>		3'940	244	49	1'058	
<b>80%-Wert</b>		4'880	251	56	1'143	

<b>spezifische Belastung pro EW</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>g / Tag</b>	<b>Probenahmeort: ab VKB</b>	<b>l / Tag</b>	<b>g / Tag</b>
	<b>45</b>	<b>90</b>	<b>7.5</b>	<b>1.6</b>		<b>30</b>	<b>85</b>

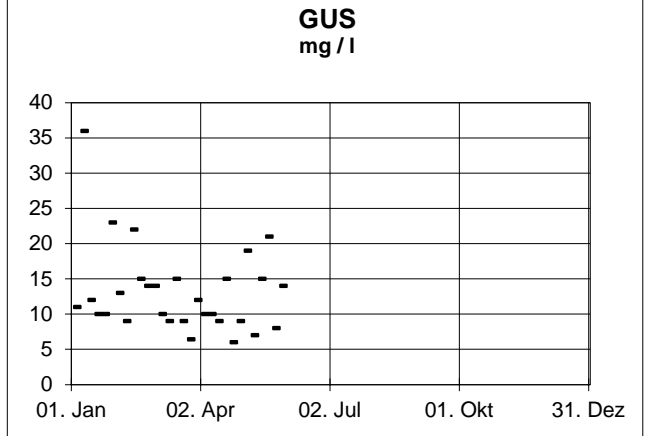
<b>Einwohnerwerte</b>	<b>BSB5 EW</b>	<b>CSB EW</b>	<b>NH4-N EW</b>	<b>Pges EW</b>	<b>Mittelwerte EW</b>	<b>Gasp. EW</b>	<b>FS EW</b>
<b>Mittelwert</b>		47'556	31'685	32'359	37'200	35'583	34'259
<b>50%-Wert</b>		43'775	32'492	30'925	35'731	35'267	
<b>80%-Wert</b>		54'227	33'443	35'302	40'991	38'100	

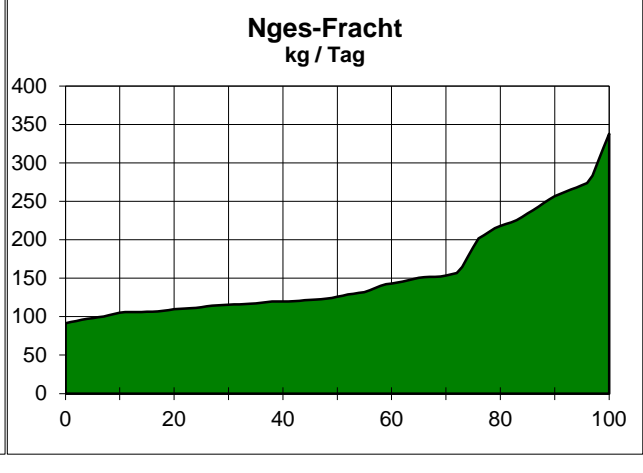
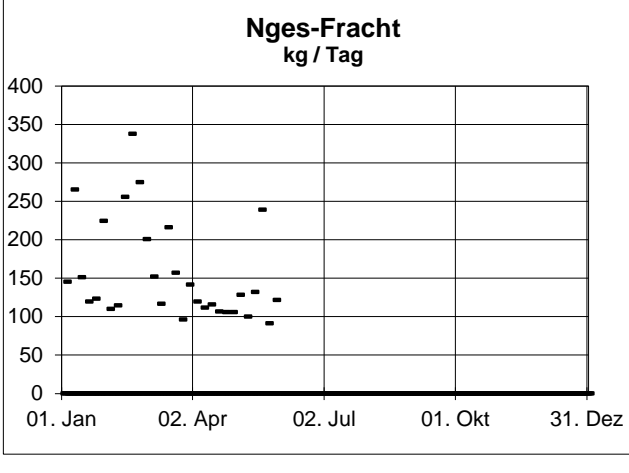
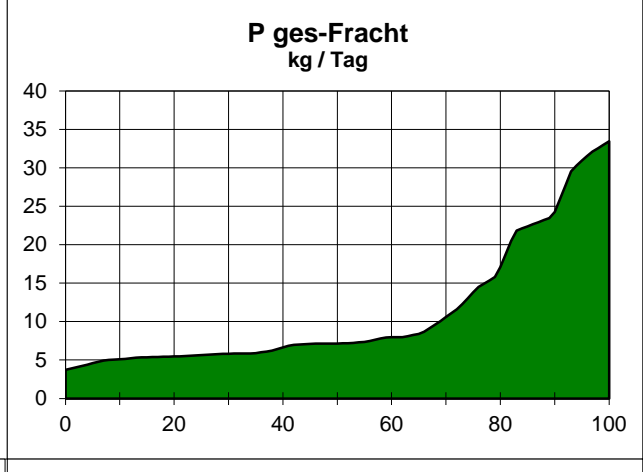
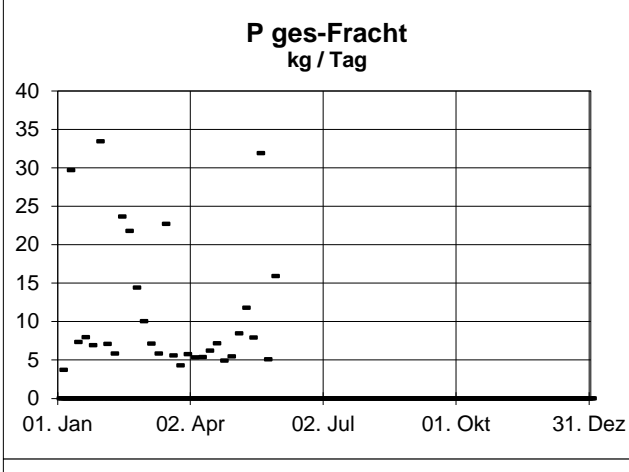
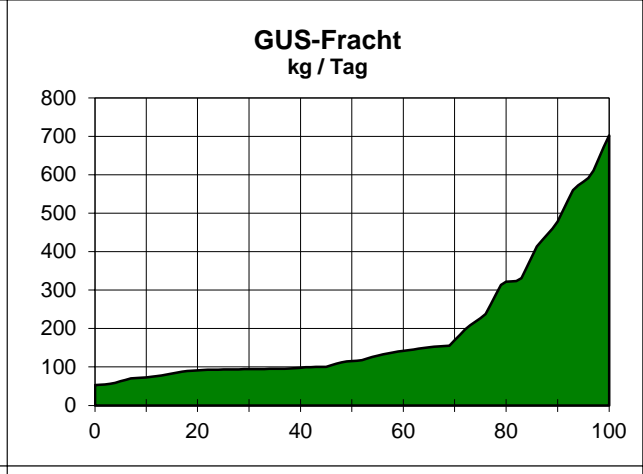
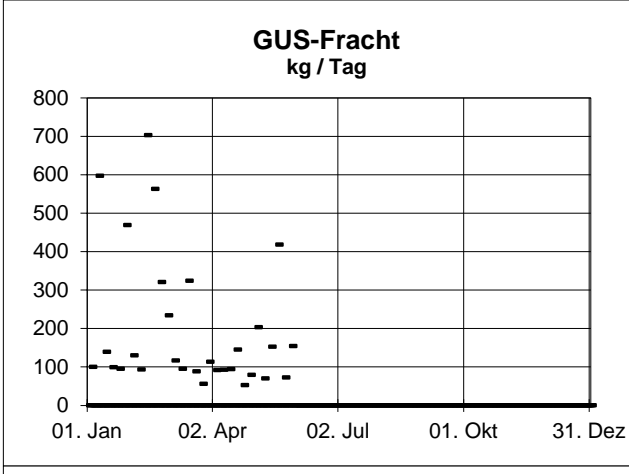
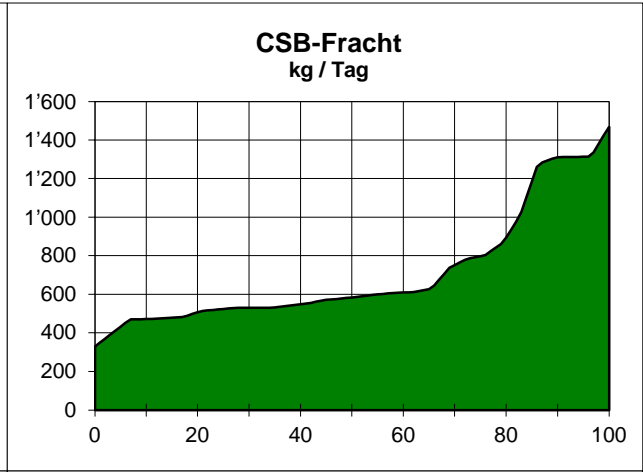
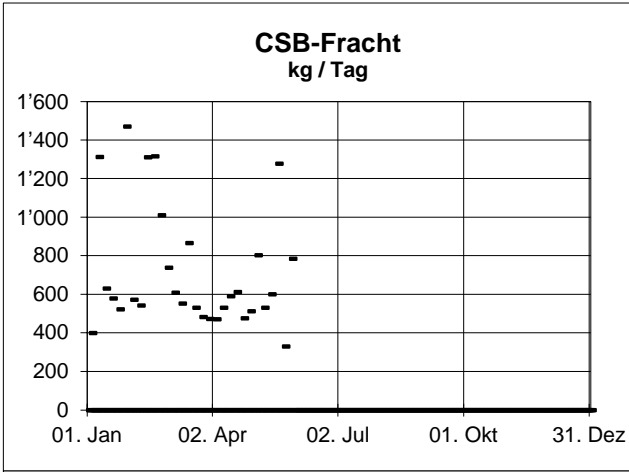


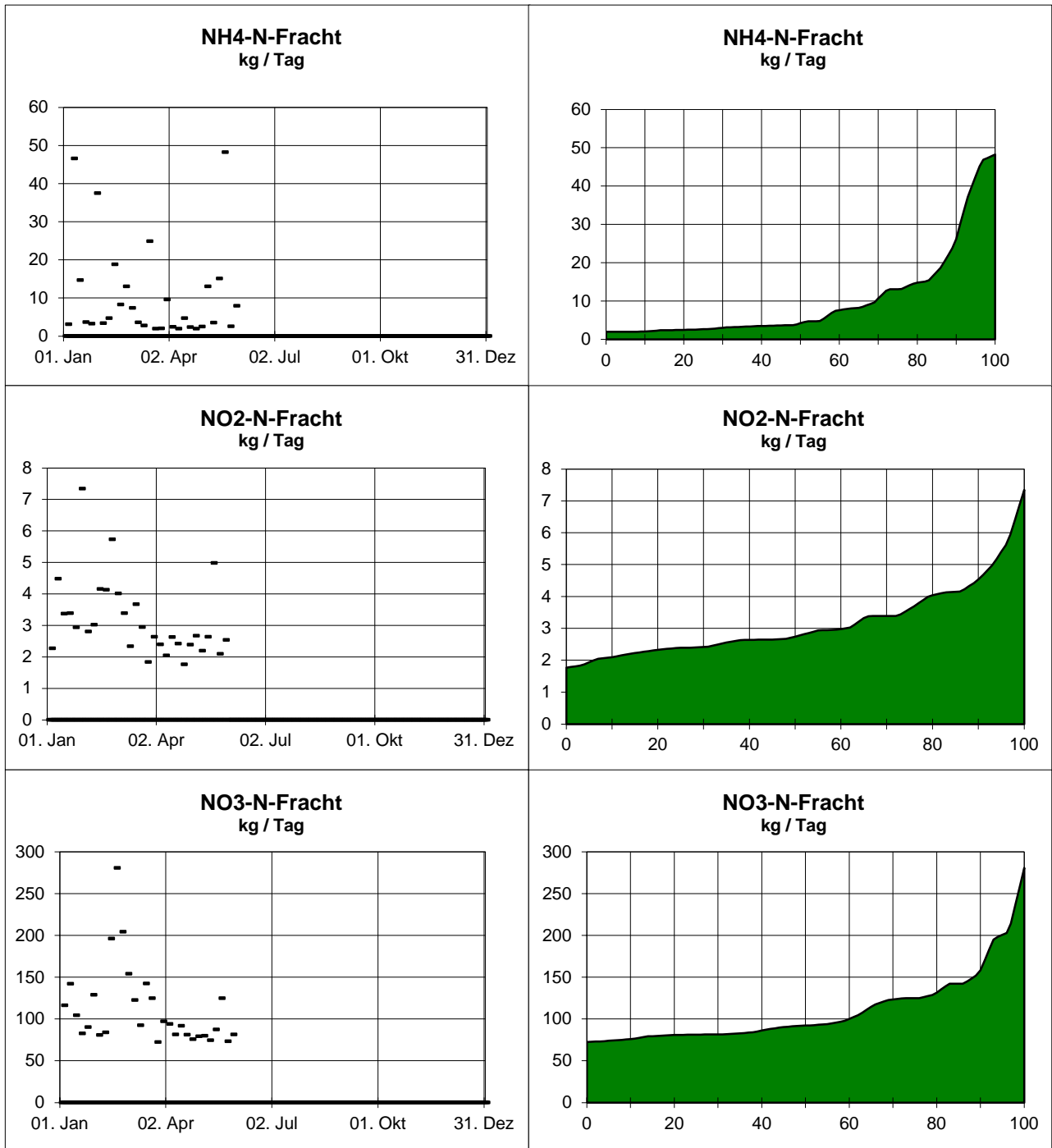
Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert <sup>1)</sup>
<b>BSB5</b>			15
<b>CSB</b>	54.5	71.1	
<b>GUS</b>	13.1	21.1	15
<b>NH4-N</b>	0.7	1.5	2
<b>NO2-N<sup>2)</sup></b>	0.2	0.3	0.3
<b>NO3-N</b>	8.6	10.3	
<b>P ges</b>	0.79	1.46	0.8

<sup>1)</sup> nach GSchV vom 28. Oktober 1998

<sup>2)</sup> Richtwert







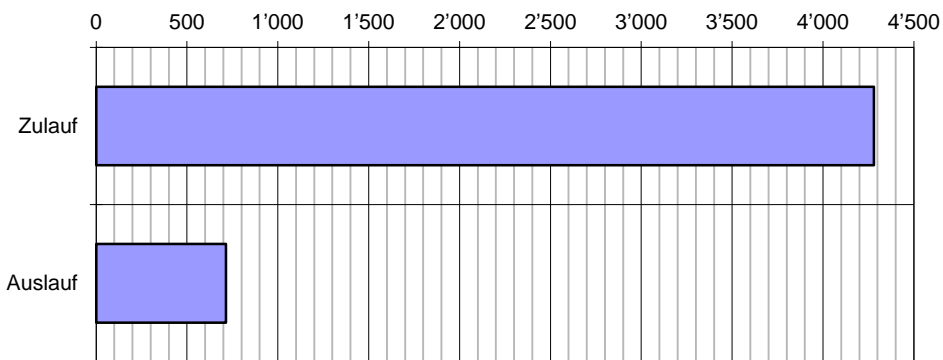
**Auslauffrachten:**

Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
<b>CSB</b>	714	584	894	691
<b>GUS</b>	199	115	322	178
<b>Nges</b>	156	126	218	150
<b>NH4-N</b>	10.5	4.2	14.8	8.6
<b>NO2-N</b>	3.2	2.7	4.0	3.0
<b>NO3-N</b>	111.4	92.1	131.6	104.8
<b>P ges</b>	11.3	7.2	17.1	10.3

**Abbauleistungen:**

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
<b>CSB</b>	4'280	714	83%	80%
<b>N ges</b>	424.9	156.1	63%	30%
<b>NH4-N</b>	237.2	10.5	96%	90%
<b>Pges</b>	51.8	11.3	78%	80%

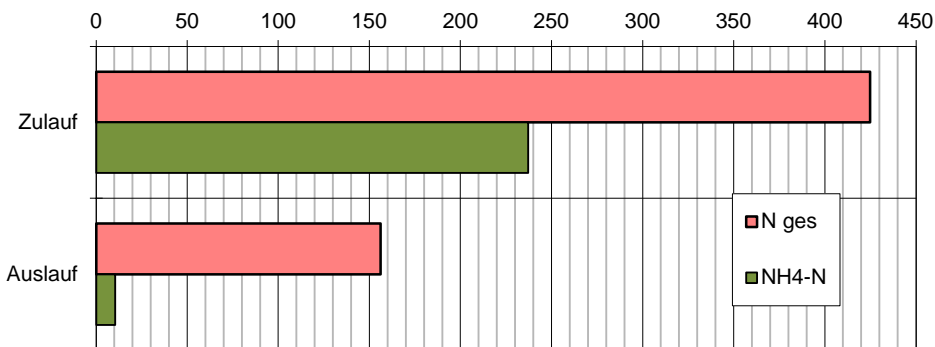
**CSB-Frachten in kg / Tag**



**CSB-Abbau**

3'566 kg / Tag
83%
<b>80%</b>
Richtwert

**Stickstoff-Frachten in kg / Tag**



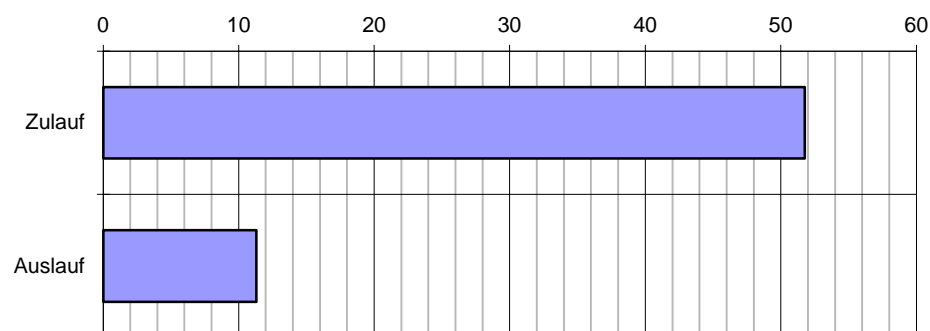
**N-Elimination**

269 kg / Tag
63%
<b>30%</b>

**Nitrifikation**

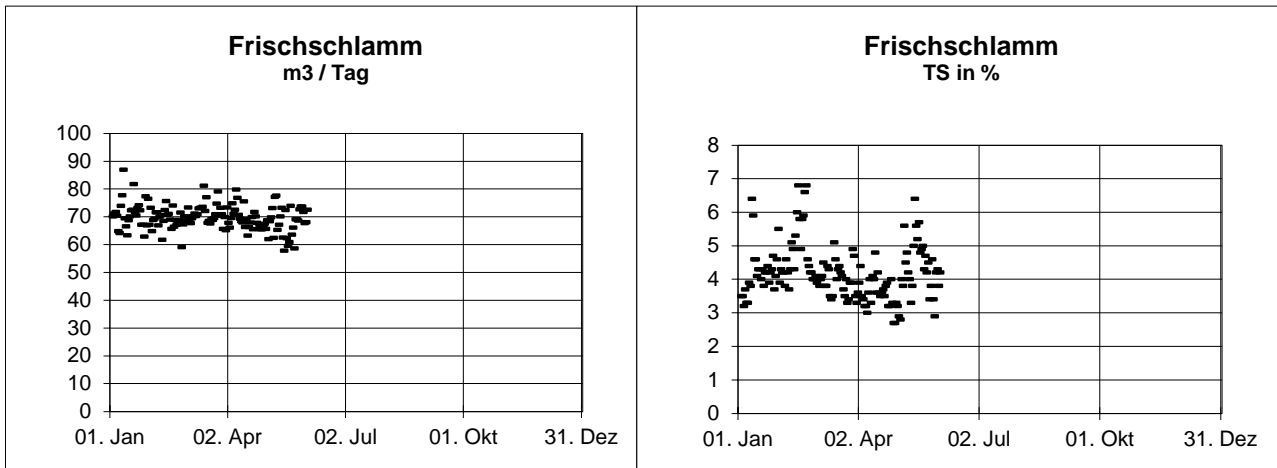
227 kg / Tag
96%
<b>90%</b>

**Phosphor-Frachten in kg / Tag**



**P-Elimination**

40 kg / Tag
78%
<b>80%</b>

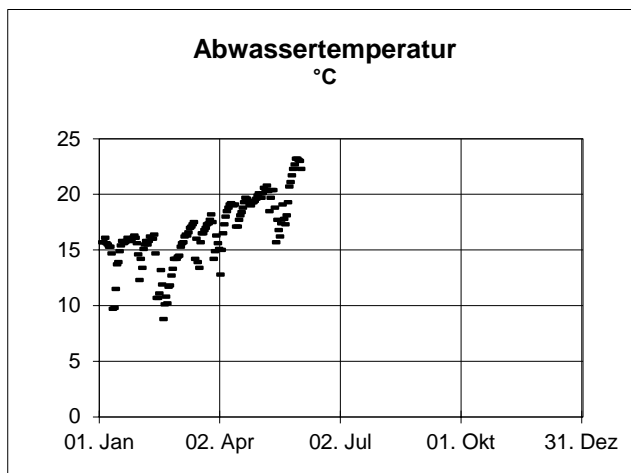


**Frischschlammfall: Mittelwerte**

<b>Frischschl. nass</b>	69.7	m3/Tag
<b>TS-Anteil</b>	4.2	%
<b>Frischschl. in TS</b>	2'912	kg/Tag

**Jahresanfall**

<b>Frischschl. in TS</b>	1'063	t/ Jahr
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**Abwassertemperatur:**

<b>Mittelwert</b>	16.6 °C
<b>20%-Wert</b>	14.5 °C
<b>50%-Wert</b>	16.3 °C
<b>80%-Wert</b>	19.3 °C

**Bemerkungen zur Datenauswertung:**